

In the Claims:

1. - 271. (Cancelled)

272. (Currently Amended) A visual prosthesis comprising:
an internal electronics unit, suitable for implantation within a living body, at least a portion of
said internal electronics unit is formed within a biocompatible hermetic box including a
metal portion braised to a ceramic portion; and
a plurality of electrodes driven by said internal electronics unit suitable for stimulating visual
neurons to create a perception of a visual image~~The visual prosthesis according to claim 271,~~
~~further comprising a braised joint between said metal portion and said ceramic portion.~~

273. (Currently Amended) A visual prosthesis comprising:
an internal electronics unit, suitable for implantation within a living body, at least a portion of
said internal electronics unit is formed within a biocompatible hermetic box including a
metal portion and a ceramic portion;
a flip chip electrically connected to feed-throughs in said ceramic portion; and
a plurality of electrodes driven by said internal electronics unit suitable for stimulating visual
neurons to create a perception of a visual image~~The visual prosthesis according to claim 271,~~
~~further comprising a flip chip electrically connected to feed-throughs in said ceramic portion.~~

274. (Currently Amended) A visual prosthesis comprising:
an internal electronics unit, suitable for implantation within a living body, at least a portion of
said internal electronics unit is formed within a biocompatible hermetic box including a
metal portion and a ceramic portion;
a plurality of electrodes driven by said internal electronics unit suitable for stimulating visual
neurons to create a perception of a visual image;
wherein said metal portion includes a metal sidewall joined with a metal top by a weld joint. The
visual prosthesis according to claim 271, wherein said metal portion comprises a metal sidewall
joined with a metal top by a weld joint.

Serial No. 09/976,799

-3-

275. – 291. (Cancelled)

292. (Currently Amended) The visual prosthesis according to claim ~~291~~272 wherein said internal electronics unit is suitable to be implanted in the vicinity of the eye, further comprising a braised joint between said metal portion and said ceramic portion.

293. (Currently Amended) The visual prosthesis according to claim ~~290~~273 wherein said internal electronics unit is suitable to be implanted in the vicinity of the eye, further comprising a flip chip electrically connected to feed-throughs in said ceramic portion.

294. (Currently Amended) The visual prosthesis according to claim ~~291~~274 wherein said internal electronics unit is suitable to be implanted in the vicinity of the eye, wherein said metal portion comprises a metal ring joined with a metal top by a weld joint.

295. – 314. (Cancelled)